

Work Element 400

July 2002

Data Systems Development

PBC Work Element Manager – David Han

OBJECTIVE: to define, develop, implement and evolve/enhance the requirements defined by NSSDC government staff relating to data storage, access and performance.

SIGNIFICANT EVENTS:

- Continued to support the operations staff with data ingest and archiving as needed.
- Maintained the DIONAS software suite and continued coding on enhancements to it.
- Continued planning of the system and processes to migrate NSSDC data to next generation of media.
- Coordinated with operations group for design and development of enhancements to DIONAS; coordinate software testing in an operational environment.
- Continued to interface with the Database Administrator about operational databases and next generation database designs.
- Continued to interface with NOST and coordinate the development of the next functional version of the NOST-supplied core software for DIONAS.
- Provided representation to the NSSDC Configuration Control Board.

Work Element 410

July 2002

Data Systems Development

PBC Work Element Manager – David Han

OBJECTIVE: to perform all the necessary, non-personal services required to manage contractor and sub-contractor staff supporting the Operations portion of the Space Science Data Operations Office (SSDOO). The contractor management team will meet with the NSSDC and SSDOO management staff to discuss significant events, updates, issues and concerns from the Operations Group. The Metrics Tracking System will be maintained current.

SIGNIFICANT EVENTS:

- Held Operations management staff meetings as needed.
- Held meetings with Operations staff as needed.
- Attended Government/Contractor meetings as scheduled.
- Provided representation to the NSSDC Configuration Control Board.
- Reported monthly PBC Metrics for June '02.

Work Element 421

July 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to ingest data into the NSSDC on-line, nearline and offline data archives.

SIGNIFICANT EVENTS:

- Continued to ingest IMAGE data, received 12 deliveries with a total of 468 files. All were ingested in a timely manner.
- Continued to ingest ISIS –1 data, received 15 deliveries with a total of 14831 files. All were ingested in a timely manner.
- Continued to receive and archive data on physical media, a total of 194 GB on 341 CDs and 4 magneto-optical disks from the Cluster 2, FAST, Geotail, NEAR Shoemaker, Polar, SAMPEX, Wind, and ISTP missions.
- Continued to advise the software development team with operational insights for design and development of enhancements to DIONAS; continued to support software testing in an operational environment.
- Continued to support the planning efforts for system and process design to migrate NSSDC data to the next generation of media.
- Continued data processing and ingest for the remaining data from NDADS, including ISIS1, ISIS2, IRAS, Pioneer, Ulysses, San Marco, mariner, Voyager and Skylab.

Work Element 422

July 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to ensure that the data bundles entrusted to NSSDC are reliably findable, retrievable and usable into the indefinite future.

SIGNIFICANT EVENTS:

- Environmental monitors were checked each workday. The values recorded were out of compliance on 18 days. The PBC Work Element Manager was duly notified in a timely manner.
- Security was maintained and security procedures followed for the archive storage areas; there were no breaches.
- Continued to advise the software development team with operational insights for design and development of enhancements of JIN; continued to support software.
- Continued to support the planning efforts for system and process design to migrate NSSDC data to the next generation of media.

Work Element 423

July 2002

Request Coordination and Services

PBC Work Element Manager – David Han

OBJECTIVE: to provide user support and request activities coordination for all data center services.

SIGNIFICANT EVENTS:

- The following user support was provided: e-mail referrals - 10; telephone - 6; faxes - 4; scientific assistance - 5; e-mail support - 49; data services - 48; special projects - 17.
- A total of 11,120 shipments were made including 1 Federal Express shipments.
- We completed 7,638 requests for 7,883 Milky Way posters and 3,482 requests for 3,581 COBE posters.
- The first work day of July there were 30,963 un-read mail messages in the posters account and on the last day of the month there were 3,444. There were 27,949 mail messages extracted in mid-July. There was a total of 3,803 new messages received in July.
- There were 132 MW posters and 44 COBE posters returned in July. The posters are returned for various reasons, mostly due to the recipient moving and not leaving a forwarding address.
- Phil Plate from Sonoma State U asked for 5,000 Milky Way Posters. We declined to send them per Ralph. He understood our dilemma.
- We received three survey cards. All were excellent. To the question, "were you satisfied?", one commented "yes, and speedy too!", one said "yes, I was very much!". One asked that we put a PDF version of the CD-ROM catalog on the website so they can print it out.
- Staff members continue to inventory all of the NSSDC photo archive data for the eventual creation of an Oracle database of all analog data.

Work Element 430

July 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to provide comprehensive information functionality related to availability of data, to all launched spacecraft and to many spaceborne experiments.

SIGNIFICANT EVENTS:

- Maintained and updated the NSSDC Master Catalog.
- Maintained and updated JRAND.
- Maintained and updated JEDS and IDA.
- Maintained AIM and TRF and made 59 updates to them.
- Resolved one problem report about the databases in a timely manner.
- No FILEX report was required this period.
- No SATX report was required this period.
- Prepared and issued SPACEWARN report in a timely manner.

Work Element 440

July 2002

Computing Systems Operations

PBC Work Element Manager – David Han

OBJECTIVE: to provide systems analysis and technical support to the operational computer activities of the NSSDC.

SIGNIFICANT EVENTS:

- Continued to maintain existing hardware (servers, Macs, PCs and peripherals) and system-level software – VMS, unix, Mac-OS, Windows, and other operational packages -- to ensure the optimal performance and connectivity. The average availability of systems for July 2002 was 100%.
- Continued to integrate new hardware and system-level software into existing systems to achieve upgraded capabilities and state-of-the-art facilities. Planned new operational configuration of servers. Ordered new ftp machine.
- Maintained security of the systems to minimize security breaches. No security breaches were detected in this reporting period.
- Continued to administer specialized software such as data base and disk management systems.
- Continued to provide users with the necessary documentation, training, and assistance so that resources are fully utilized.